

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P266396

Luminaire Tested: **UTLD-AF24-60-D-U-5WQ-TL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-29)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-5WQ-TL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND TEXTURED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5411.8 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U3 - G3

Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

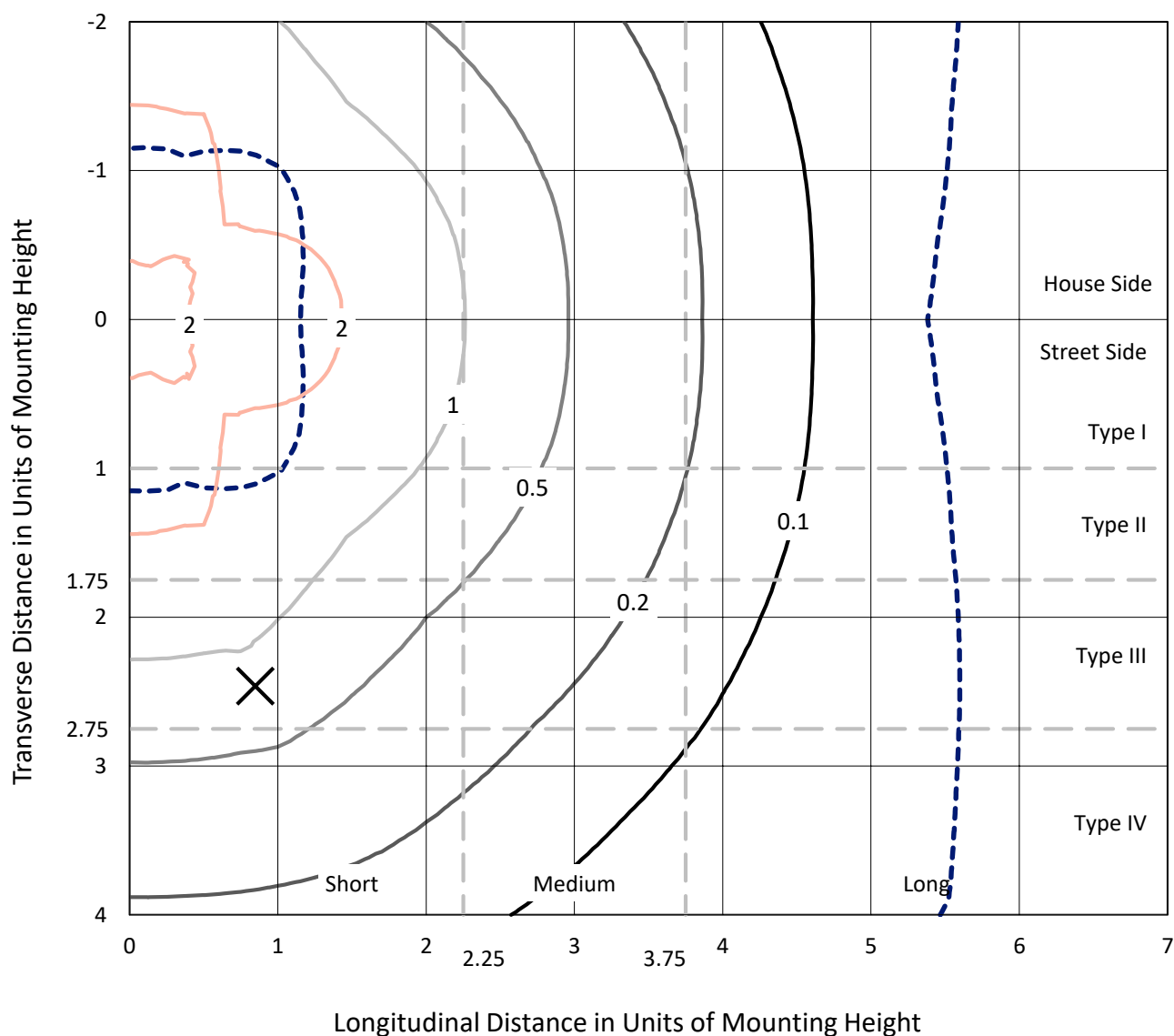


REPORT NUMBER: P266396

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-TL-7027

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

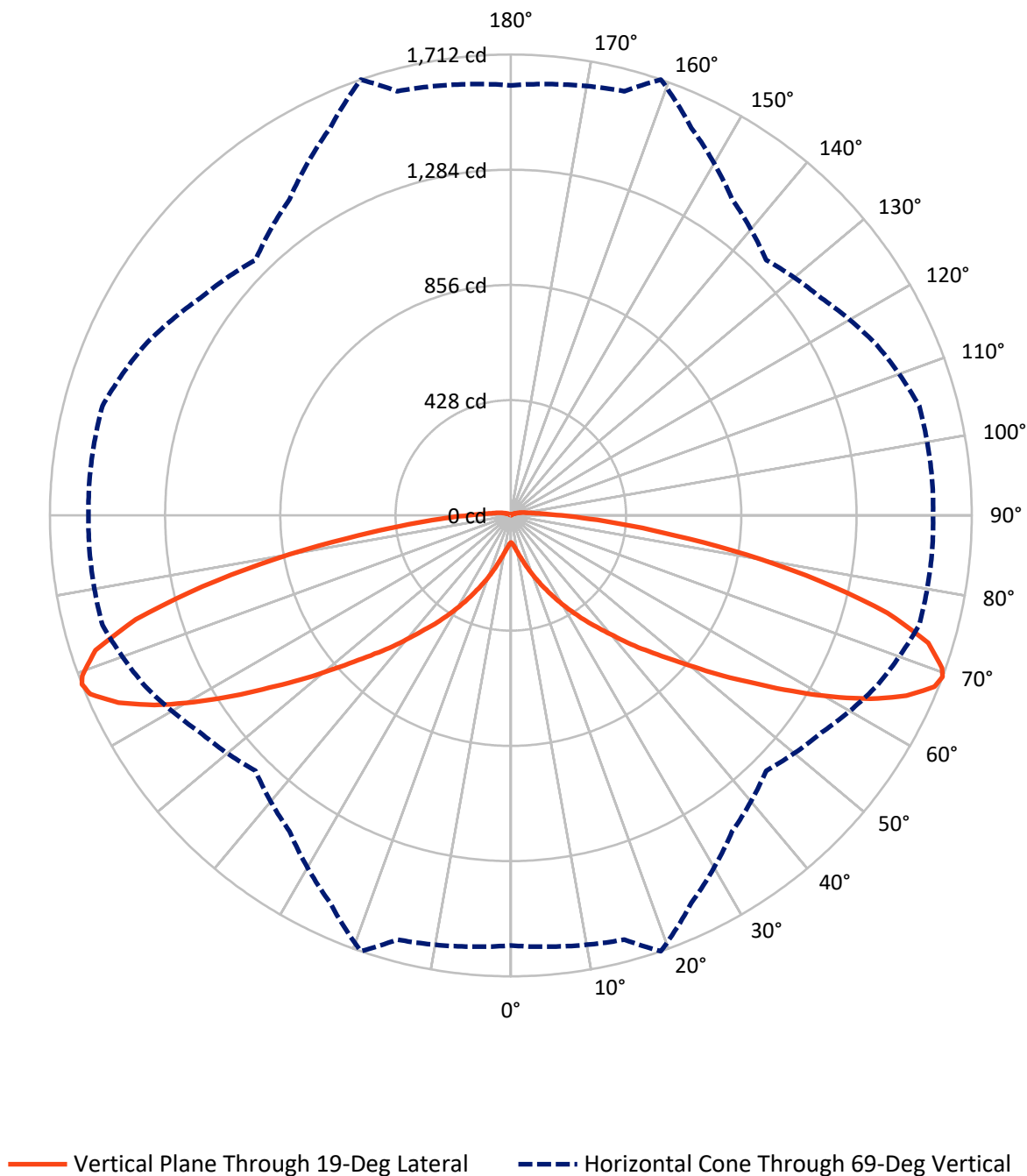


Based on 10 foot mounting height. Maximum calculated value = 2.8 fc
Type V - Short - Non-Cutoff

REPORT NUMBER: P266396

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-TL-7027

Luminous Intensity Polar Plot



REPORT NUMBER: P266396

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-TL-7027

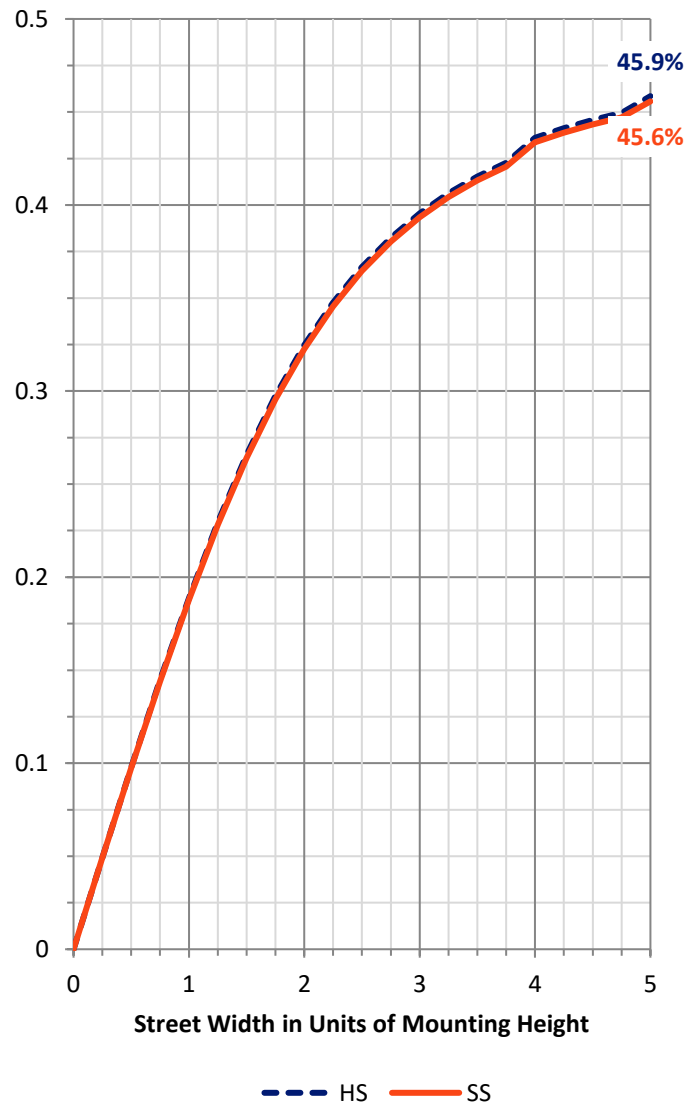
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2596.2	109.8	2705.9
	% Fixture	48.0	2.0	50.0
Street Side	Lumens	2596.2	109.8	2705.9
	% Fixture	48.0	2.0	50.0
Total	Lumens	5192.3	219.5	5411.8
	% Fixture	95.9	4.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	0.2
10°-20°	48.3	0.9
20°-30°	131.8	2.4
30°-40°	278.7	5.1
40°-50°	508.9	9.4
50°-60°	888.8	16.4
60°-70°	1393.2	25.7
70°-80°	1374.4	25.4
80°-90°	557.3	10.3
90°-100°	134.3	2.5
100°-110°	49.0	0.9
110°-120°	20.6	0.4
120°-130°	9.4	0.2
130°-140°	4.4	0.1
140°-150°	1.6	0.0
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5192.3	95.9
0°-180°	5411.8	100.0

Coefficient of Utilization



REPORT NUMBER: P266396

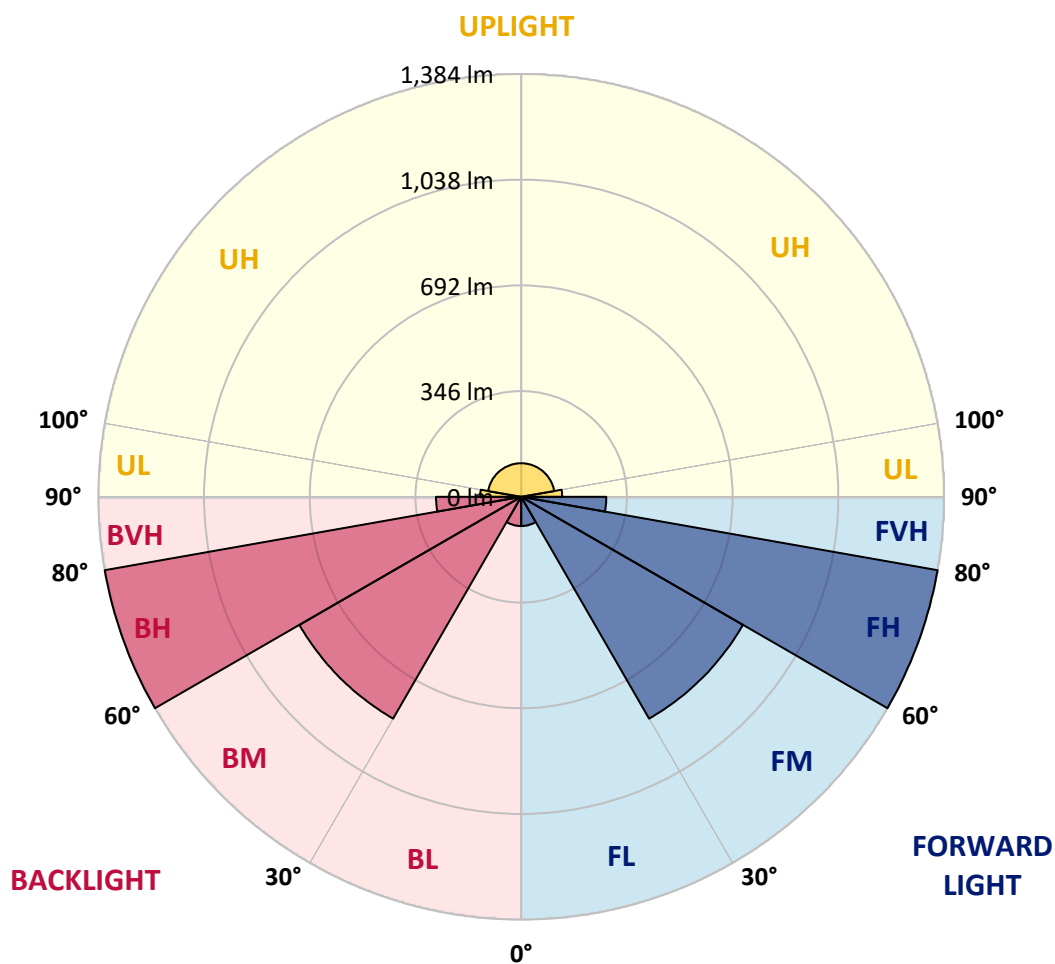
CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-TL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.5	1.8			
FM	(30°-60°)	838.2	15.5			
FH	(60°-80°)	1383.8	25.6			G1/1800
FVH	(80°-90°)	278.7	5.1			G3/500
BL	(0°-30°)	95.5	1.8	B0/110		
BM	(30°-60°)	838.2	15.5	B1/1000		
BH	(60°-80°)	1383.8	25.6	B3/2500		G1/1800
BVH	(80°-90°)	278.7	5.1			G3/500
UL	(90°-100°)	134.3	2.5		U3/500	
UH	(100°-180°)	109.8	2.0		U3/500	

BUG Rating: B3-U3-G3

Type V Short





REPORT NUMBER: P266396

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-TL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
0°	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3
2.5°	102.1	102.1	102.1	104.7	102.1	102.1	102.1	102.1	102.1	102.1	101.5
5°	107.3	107.3	107.3	113.2	107.3	106.7	106.7	107.3	106.7	106.7	106.7
7.5°	117.1	116.5	116.5	124.3	116.5	115.9	115.3	115.3	115.3	114.5	114.5
10°	130.3	129.6	128.9	139.4	128.3	127.6	127.0	126.3	126.3	126.3	127.0
12.5°	147.3	147.3	146.1	157.8	144.1	142.1	140.8	140.1	140.8	141.5	142.1
15°	168.9	169.6	167.7	180.0	163.0	159.8	157.8	157.8	159.1	161.1	163.0
17.5°	197.7	197.1	193.1	208.1	187.9	181.4	176.7	177.4	181.9	187.2	190.5
20°	229.2	227.2	222.6	237.7	214.8	205.0	199.8	201.0	208.9	217.4	221.9
22.5°	263.8	261.9	255.4	270.4	243.6	231.1	225.8	227.8	237.7	250.1	259.3
25°	301.8	301.2	291.9	305.8	274.3	259.3	252.1	256.6	270.4	289.3	300.6
27.5°	343.7	342.4	330.7	345.7	309.0	290.7	282.2	286.7	305.2	329.9	347.6
30°	389.5	388.2	371.9	388.2	345.7	322.1	312.3	319.4	341.7	375.1	394.7
32.5°	438.6	437.4	417.1	432.8	386.4	356.2	343.2	352.9	381.7	418.4	444.5
35°	490.4	487.2	466.2	481.2	429.5	391.5	375.9	390.9	422.9	466.2	495.7
37.5°	546.0	542.0	518.0	531.0	474.7	431.5	413.8	427.6	468.1	514.0	549.9
40°	603.7	600.3	571.0	587.9	526.3	474.0	453.0	470.2	516.5	565.0	602.4
42.5°	664.6	661.3	633.1	654.8	582.0	520.5	496.3	518.0	568.3	621.9	662.6
45°	727.4	726.1	699.2	720.3	642.3	574.8	547.3	572.2	627.2	686.8	726.1
47.5°	804.1	796.2	775.9	796.2	714.3	641.6	607.7	633.8	694.7	759.4	798.8
50°	880.0	878.6	860.9	885.9	795.4	710.4	673.1	703.2	772.6	839.3	876.7
52.5°	970.3	973.0	953.9	991.3	889.9	797.4	752.9	786.9	864.2	929.0	965.7
55°	1067.1	1068.5	1060.7	1100.7	991.3	887.9	840.6	878.1	957.2	1028.6	1063.2
57.5°	1179.8	1178.4	1175.9	1230.9	1110.5	995.9	937.7	982.7	1065.2	1137.3	1166.1
60°	1291.1	1291.1	1297.7	1366.4	1236.1	1107.2	1039.7	1091.4	1178.4	1254.5	1275.5
62.5°	1411.5	1413.6	1419.4	1500.0	1356.6	1220.3	1143.2	1199.4	1297.7	1367.7	1384.7
65°	1509.8	1518.9	1532.1	1615.2	1476.5	1323.3	1242.0	1301.6	1402.4	1471.9	1482.4
67.5°	1581.1	1585.8	1610.7	1697.1	1564.8	1405.0	1315.9	1377.6	1477.1	1547.8	1554.2
69°	1597.5	1608.0	1631.0	1712.1	1587.8	1433.2	1341.4	1407.6	1499.4	1570.6	1570.6
70°	1590.3	1603.5	1631.0	1699.7	1593.0	1442.4	1352.7	1414.2	1503.9	1570.1	1568.1
72.5°	1511.0	1520.3	1567.5	1621.8	1553.0	1424.1	1347.5	1400.5	1463.2	1509.2	1497.4
75°	1344.1	1353.3	1406.3	1445.0	1427.9	1337.5	1283.3	1318.0	1348.0	1352.7	1330.4
77.5°	1086.2	1100.0	1173.2	1175.9	1226.9	1191.6	1162.8	1175.3	1156.3	1135.3	1086.9
80°	819.8	829.6	897.0	890.4	974.9	997.2	993.9	986.7	929.7	863.6	809.3
82.5°	568.3	576.2	643.5	613.5	724.2	777.8	796.7	772.0	685.4	610.8	562.3
85°	364.1	377.1	430.2	410.5	508.7	573.6	601.7	563.1	481.2	409.2	368.7
87.5°	235.6	240.9	279.6	263.3	337.9	404.6	434.7	403.2	330.7	270.4	236.3
90°	152.0	157.8	181.9	169.6	225.8	278.3	303.7	274.3	223.9	181.4	157.8
92.5°	106.1	110.6	124.3	117.1	152.0	191.9	214.8	191.9	155.1	128.3	111.3
95°	81.1	83.2	93.0	86.4	110.6	138.8	152.5	138.8	113.2	96.3	84.5
97.5°	64.1	65.4	72.7	67.5	83.2	103.5	113.9	104.2	87.0	75.3	66.1
100°	51.7	52.5	58.3	55.7	66.7	81.1	88.5	81.8	70.1	60.2	53.0
102.5°	42.0	42.0	47.8	46.5	54.9	65.4	70.6	67.5	57.6	49.0	42.0
105°	33.3	33.3	38.6	38.6	45.9	53.7	58.3	54.9	47.2	39.3	33.3
107.5°	26.2	26.9	30.8	30.8	38.0	44.6	47.8	45.2	38.6	30.8	26.2



REPORT NUMBER: P266396

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-TL-7027

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	19°	25°	35°	45°	55°	65°	75°	85°
110°	20.9	21.6	24.9	25.5	31.4	37.3	40.0	37.3	31.4	24.3	20.3
112.5°	17.0	17.0	20.3	20.3	25.5	30.8	32.8	30.8	25.5	19.0	16.3
115°	14.5	14.5	16.3	16.3	20.9	25.5	27.5	25.5	20.3	15.7	13.7
117.5°	12.4	12.4	13.7	13.7	17.6	21.6	22.8	20.9	17.0	13.0	11.8
120°	11.0	11.0	11.8	11.8	14.5	17.6	19.0	17.6	13.7	11.0	10.5
122.5°	9.8	9.8	10.5	9.8	12.4	15.0	15.7	14.5	11.8	9.8	9.2
125°	9.2	9.2	9.2	8.5	10.5	12.4	13.0	11.8	9.8	8.5	8.5
127.5°	7.8	7.8	7.8	7.1	8.5	10.5	11.0	9.8	8.5	7.8	7.1
130°	7.1	7.1	7.1	6.6	7.8	8.5	9.2	8.5	7.1	7.1	7.1
132.5°	6.6	6.6	6.6	5.8	6.6	7.1	7.1	6.6	5.8	5.8	6.6
135°	5.8	5.8	5.8	5.2	5.2	5.2	5.8	5.2	5.2	5.2	5.8
137.5°	5.2	5.2	5.2	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.2
140°	4.6	4.6	4.6	3.2	4.0	3.2	3.2	3.2	4.0	4.0	4.6
142.5°	4.0	4.0	3.2	3.2	3.2	2.6	1.9	2.6	2.6	3.2	4.0
145°	3.2	3.2	2.6	2.6	2.6	1.9	1.3	1.3	2.6	2.6	2.6
147.5°	2.6	2.6	1.9	1.9	1.9	1.3	0.7	1.3	1.9	1.9	2.6
150°	1.9	1.9	1.3	1.3	1.3	0.7	0.7	0.7	1.3	1.3	1.9
152.5°	1.3	1.3	1.3	0.7	0.7	0.7	0.0	0.7	0.7	1.3	1.3
155°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.7	0.7	0.7
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P266396

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-TL-7027

CANDELA DISTRIBUTION (continued):

	90°
0°	100.3
2.5°	101.5
5°	106.7
7.5°	114.5
10°	126.3
12.5°	142.7
15°	163.0
17.5°	189.9
20°	223.3
22.5°	261.9
25°	303.7
27.5°	349.6
30°	397.4
32.5°	449.2
35°	501.6
37.5°	553.3
40°	609.0
42.5°	665.3
45°	728.0
47.5°	800.7
50°	883.9
52.5°	969.6
55°	1060.7
57.5°	1166.1
60°	1277.4
62.5°	1386.1
65°	1479.7
67.5°	1552.4
69°	1568.7
70°	1563.5
72.5°	1483.6
75°	1314.0
77.5°	1075.7
80°	791.5
82.5°	542.0
85°	360.1
87.5°	230.4
90°	151.3
92.5°	108.1
95°	81.8
97.5°	64.8
100°	51.7
102.5°	42.0
105°	32.8
107.5°	25.5



REPORT NUMBER: P266396

CATALOG NUMBER: UTLD-AF24-60-D-U-5WQ-TL-7027

CANDELA DISTRIBUTION (continued):

	90°
110°	20.3
112.5°	16.3
115°	13.7
117.5°	11.8
120°	9.8
122.5°	9.2
125°	8.5
127.5°	7.1
130°	7.1
132.5°	6.6
135°	5.8
137.5°	5.2
140°	4.6
142.5°	4.0
145°	3.2
147.5°	1.9
150°	1.9
152.5°	1.3
155°	0.7
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)